NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

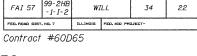
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$ (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Bar Size to Min. Capacity Min. Pull-Out Strength be Spliced Dowel Bar Length kips - tension kips - tension 7.9 14.7 1'-8' #4 12.3 #5 2'-0" 23.0

17.4 #6 2'-7" 33.1 23.8 #7 3'-5" 45.1 58.9 #8 4'-6" 31.3 75.0 5'-9" 39.6 #9 95.0 50.3 #10 7'-3" 9'-0" 117.4 61.8 #11

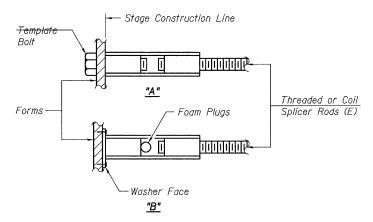


The diameter of this part is equal or larger than the diameter of bar spliced. The diameter of this part is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR

> ** ONE PIECE -Wire Connector WELDED SECTIONS

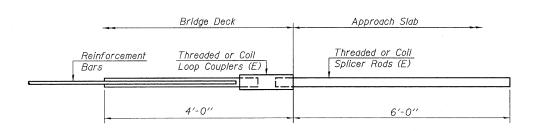
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



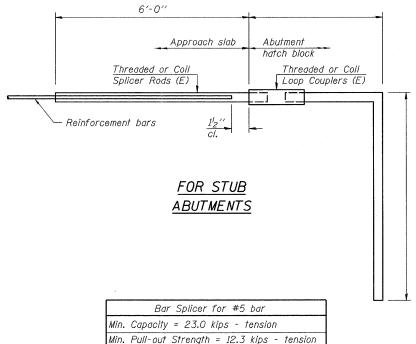
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

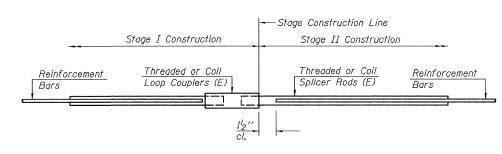


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension . Required = 0



No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#5	12	Deck
#6	8	T/Abut.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS NORTH PEOTONE ROAD OVER I-57 FAI RTE 57 SECTION 99-2HB-1-I-2 WILL COUNTY STATION 1035+6.40 STRUCTURE NO. 099-0162

DRAWN BY LM DATE: 1-14-2009 CHECKED BY WJV

BSD-1

11-1-06